# Aerospace Drawings Course No. 41515 Credit: 0.5

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| --- | --- | --- | --- |
| **Student name:** |  | **Graduation Date:** |  |

Pathways and CIP Codes:Aviation Production (15.0000) - Design Strand

Course Description: An **application level** course that teaches students Technical Illustration techniques used to create technical drawings for aviation. (CATIA 4)

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: Demonstrate basic concepts of the drafting structure

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Navigate the project life data management system. |  |
| 1.2 | Identify the drafting tools. |  |
| 1.3 | Review drafting standards and basic drafting concepts. |  |
| 1.4 | Create a drawing and a new sheet. |  |

## Benchmark 2: Demonstrate how to effectively create views and dimensions for a drawing in a CAD system

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Create views from parts. |  |
| 2.2 | Modify sheets and views. |  |
| 2.3 | Create dimensions. |  |
| 2.4 | Apply GD&T to a drawing. |  |
| 2.5 | Modify dimensions. |  |

## Benchmark 3: Demonstrate how to effectively create annotations and markups for a drawing in a CAD system

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 3.1 | Create annotations and symbols. |  |
| 3.2 | Modify annotations and symbols. |  |
| 3.3 | Create markups. |  |
| 3.4 | Create fill areas. |  |

## Benchmark 4: Demonstrate how to effectively work with assemblies in a CAD system

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 4.1 | Create views from assemblies. |  |
| 4.2 | Create balloons and bills of material. |  |
| 4.3 | Manipulate views with cut, copy, and paste. |  |
| 4.4 | Create views of parts from an assembly. |  |
| 4.5 | Work with links in an assembly drawing. |  |

## Benchmark 5: Demonstrate how to effectively create 2D geometry with a CAD system

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 5.1 | Create 2D views manually. |  |
| 5.2 | Create 2D geometry using drawing tools. |  |
| 5.3 | Create, modify and use 2D components. |  |
| 5.4 | Create, modify, and use title blocks. |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

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